

Part No. Descriptions

Part No.	Frequency Range (GHz)	Attenuation (dB)	Temperature Coefficient Code	Temperature Coefficient of Attenuation (dB/dB/)	Max. VSWR (:1) @1GHz@25	Max. Input Power (mW)	Attenuation Accuracy (dB)
Co-WTCA1501N*S	DC-15	1	N3~N10	-0.003~ -0.010	1.2	200	±0.5
Co-WTCA1502N*S	DC-15	2	N3~N10	-0.003~ -0.010	1.2	200	±0.5
Co-WTCA1503N*S	DC-15	3	N3~N10	-0.003~ -0.010	1.2	200	±0.5
Co-WTCA1504N*S	DC-15	4	N3~N10	-0.003~ -0.010	1.2	200	±0.5
Co-WTCA1505N*S	DC-15	5	N3~N10	-0.003~ -0.010	1.2	200	±0.5
Co-WTCA1506N*S	DC-15	6	N3~N10	-0.003~ -0.010	1.2	200	±0.5
Co-WTCA1507N*S	DC-15	7	N3~N10	-0.003~ -0.010	1.2	200	±0.5

General Specifications

- 1 . Frequency Range DC to 15GHz
- 2 . Attenuation 3dB
- 3 . Attenuation Accuracy at 25 ± 0.5dB@1GHz
- 4 . VSWR 1.20:1 Max. DC~6GHz @25
1.30:1 Max. 6~12GHz @25
1.35:1 Max. 12~15GHz @25

- 5 . Nominal Impedance 50 Ohms
- 6 . Power Rating 200 mW CW
- 7 . Power Derating 100% @ 125
Derates to 0% @ 150

- 8 . Operating Temperature -55 to +150
- 9 . Temperature Coefficient over Operating Temperature Range: See Table Above.
Temperature Coefficient Tolerance: ± 0.001dB/dB/ .
- 10 . Connect type: SMA type.
- 11 . Substrate: Alumina (Al2O3).
- 12 . Resistive material: Thick film.
- 13 . Terminal material: Thick film, Input, Output and Top Ground are gold plated, Back Ground are Pd/Ag.
- 14 . Protective Coating: Thick film (ethyl acetate)
- 15 . Package Outline: See Sheet 3.
- 16 . Workmanship: per MIL-PRF-55342.
- 17 . RoHS Compliant.
- 18 . Electrostatic Discharge Control: per MIL-STD-1686.

Unit Marking dB Value (XX), Direction of Shift (N) and TCA Shift (X).
Legibility and Permanency: per MIL-STD-130.

Quality Assurance

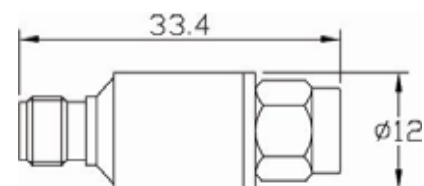
1. Sample inspect per ANSI/ASQC Z1.4 general inspection, LEVEL II, AQL = 1.0.
 - 1.1 Visual and mechanical examination for conformance to outline package requirements.
2. Select five (5) Units from lot measure attenuation every 20°C over the temperature range -55°C to +125°C.
 - 2.1 Calculate, using linear regression, the slope of the curve.
 - 2.2 Calculate TCA using the following formula: TCA = Slope / Attenuation @ 25°C.
3. Test data required for customer.

Material & Plating

Parts	Material	Plating(Micro-inch)
Body & Nut	Brass	Gold 30
Contact (female & male)	Beryllium Copper	Gold 30
Insulator	Teflon	

Package Outlines

All dimensions shown in mm unless stated otherwise



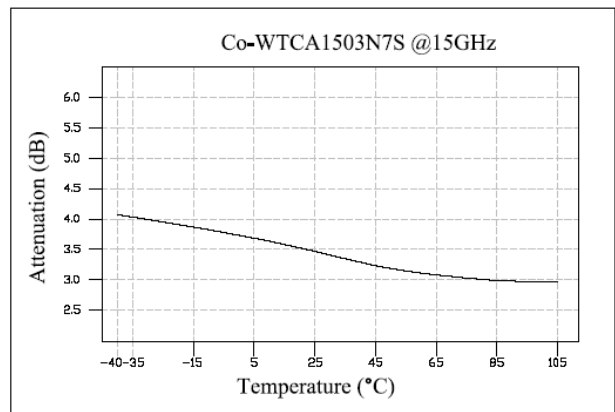
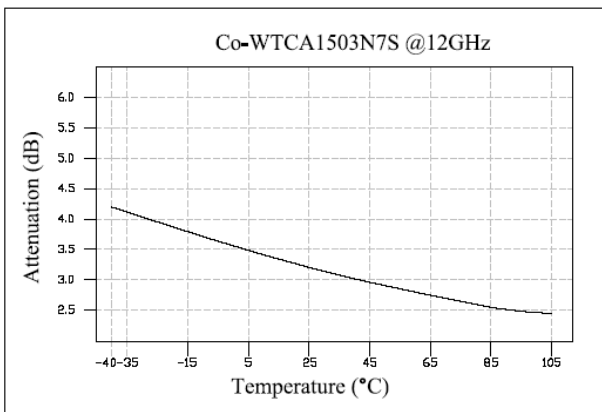
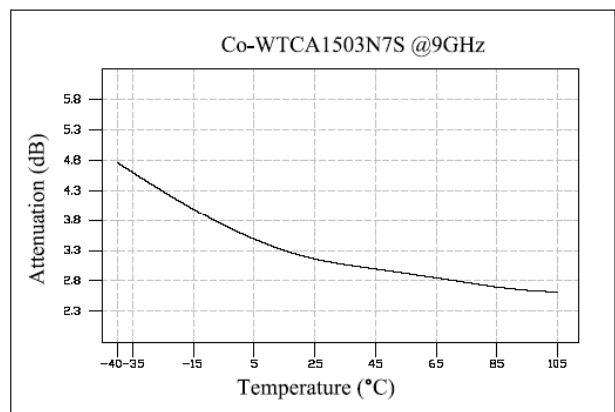
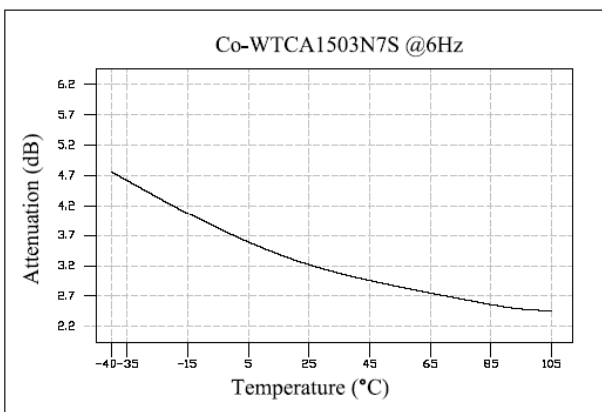
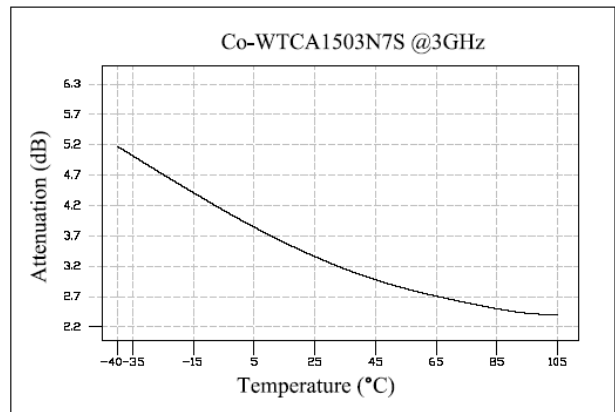
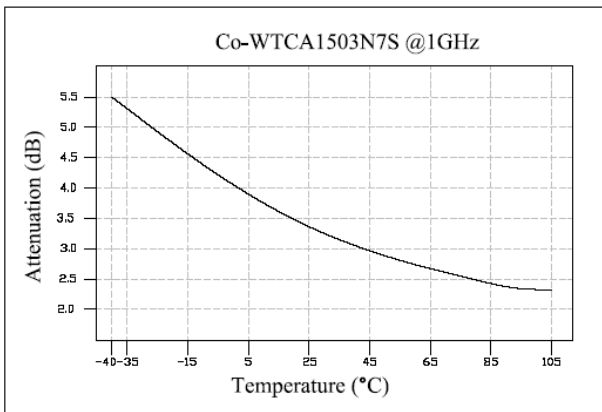
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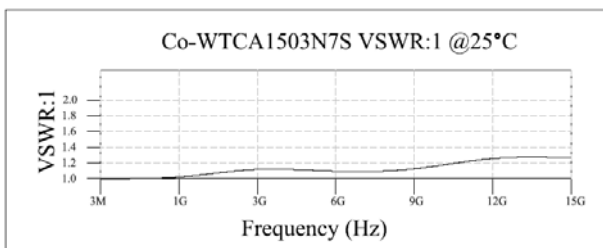
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For detailed performance specs & shopping online see Yantel web site : www.yantel-corp.com

Co-WTCA Response



Typical VSWR @25



Power Rating & Derating Curve

